

**Dade-Broward Levee Tri-Party Agreement**  
**Operation and Maintenance Plan – FY 2021**

The Dade-Broward Levee Tri-Party Agreement was recently executed in June 2020. One requirement of the Agreement is that SFWMD provide an annual Operation and Maintenance Plan to Miami-Dade County and MDLPA prior to August 1st.

Miami-Dade County written approval of this plan constitutes authorization for District staff to access the site and perform operation and maintenance activities.

Estimated O/M costs are attached and will be presented to the Lake Belt Mitigation Committee for funding authorization on August 25, 2020.

**FY 2021 – Operation Protocol**

During this first year, SFWMD will follow the Operational Protocols included as Exhibit B of the Agreement:

1. L-30 Canal Structure

*This structure will have two functions. The first function is to provide supplemental groundwater recharge to the Northwest Wellfield during dry periods. This wellfield recharge operation has priority and will include opening both the L-30 structure and the West WPC Structure and closure of the Pennsuco Diversion Structure, upon notification by the County that conditions for initiating wellfield recharge exist. Operations and function of the structure shall continue to be per the SFWMD/County agreement when the Wellfield Protection Canal was constructed, and as may be amended from time to time. The second function will be to transfer water from the L-30 Canal to the Pennsuco wetlands through the Pennsuco Diversion Structure described below.*

2. West WPC Structure

*This structure will supplement the function of the County's existing DBL-2 canal structure. Operation of the structure will be coordinated between the County and the SFWMD. It is expected that this structure will be closed most of the year, and only open when wellfield recharge is needed downstream.*


3. Pennsuco Diversion Structure

*The purpose of this structure is to provide the SFWMD with the ability to direct water*

*from the L-30 Canal into the Pennsuco wetlands for hydrologic management, when water is available from the L-30 Canal. The operational protocol will be developed by the SFWMD and will be an adaptive management process. However, the operational protocol for this structure shall not be inconsistent with and shall not conflict with operations necessary for wellfield recharge.*

#### **FY 2021 – Structure Maintenance**

SFWMD will perform quarterly inspections/preventive maintenance including operation of the gates of the two recently constructed structures (West WPC and Pennsuco Diversion). Please see attached document for specific maintenance procedures.

	<b>Program Area:</b>	Original Effective Date:
	Structure Maintenance/Shops	10/14/2009
	<b>Suggested Operating Procedures:</b>	Revision No. 1
	<b>Section ST2.11</b>	Date: 10/14/2009
	<b>Manual Single Stem Lift Structures (Quarterly PM)</b>	Page 1 of 3

## 1. Scope / Purpose

The purpose of this document is to establish a procedure for Manual Single Stem Lift Structure maintenance.

## 2. Definitions

- 2.1 Manual Single Stem Lift Structure – any structure which has a single stem that is utilized to operate a gate. Typically the structure does not have rollers but slides in a track.
- 2.2 [PPE – Personal Protective Equipment](#)
- 2.3 GPS – Global Positioning System
- 2.4 SAP – Systems Applications and Products
- 2.5 SOP – Suggested Operating Procedure
- 2.6 FTE – Full-Time Employee

## 3. Equipment / Tools / Materials Required

- 3.1 Tools
  - 3.1.1 Hand tools
  - 3.1.2 Grease gun
- 3.2 Materials
  - 3.2.1 Multifax EP-2 Grease
  - 3.2.2 Meropa 680
  - 3.2.3 Meropa 220
  - 3.2.4 Rags

## 4. Maintenance / Replacement Timeframe


- 4.1 Maintenance is required quarterly.

## 5. Safety / Environmental Requirements

- 5.1 [PPE \(Safety glasses, fall protection, life jackets, gloves, etc.\)](#)
- 5.2 Spill containment and disposal as regulated by federal, state, and local mandates.
- 5.3 Field Station contact information for emergencies.
- 5.4 GPS Coordinates of structure location.

## 6. Procedure

- 6.1 First Gear Box
  - 6.1.1 Location: Operating Platform
    - 6.1.1.1 Wipe pinion grease fittings clean and apply 5 pumps of grease to each fitting.

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6.1.1.2 Wipe fittings clean afterwards.

## 6.2 Second Gear Box

6.2.1 Location: Below Operating Platform

6.2.1.1 Remove fill plug in gearbox; check for level and contamination.

6.2.1.2 Fill or replace if necessary.

## 6.3 Stem

6.3.1 Location: Above and Below Platform

6.3.1.1 Inspect for damage.

6.3.1.2 Repair or replace if necessary.

## 6.4 Stem Boot and Cover

6.4.1 Location: Below Operating Platform

6.4.1.1 Inspect for damage.

6.4.1.2 Repair or replace if necessary.

## 6.5 Manual Lubricators (if equipped)

6.5.1 Location: Operating Platform

6.5.1.1 Check level in lubricators; fill if necessary.

6.5.1.2 Wipe clean reservoir and sight glass.

6.5.1.3 Check for proper operation.

## 7. Applicable Training Requirements

7.1 [Lockout/Tagout procedure](#)


## 8. Records

8.1 Completed SAP work order

8.2 Site logbook history

## 9. Associated Documents / Forms

9.1 None

	<b>Program Area:</b> Structure Maintenance/Shops	Original Effective Date: 10/14/2009
	<b>Suggested Operating Procedures:</b> <b>Section ST2.11</b>  <b>Manual Single Stem Lift Structures (Quarterly PM)</b>	Revision No. 1 Date: 10/14/2009
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## 10. Revision History

Revision History		
Date	Number	Reason for Change
10/14/2009	01	Original Document

Dade-Broward Levee Water Control Structures	New or Existing (FTE & Vehicles ONLY)	Qty		
			FY21	
STRUCTURE MAINT TECH - FIELD	Existing	0.05	\$	2,326
STRUCTURE MAINT TECH - FIELD - Benefits	Existing	0.05	\$	814
CREW CHIEF	Existing	0.05	\$	2,718
CREW CHIEF - Benefits	Existing	0.05	\$	951
Dade-Broward - Small Tools	N/A	1	\$	1,000
Dade-Broward - Outsource Repairs	N/A	1	\$	1,500
Dade-Broward - Electrical Service	N/A	1	\$	1,250
Dade-Broward - Waste Disposal	N/A	1	\$	350
Dade-Broward - Fencing	N/A	1	\$	500
Dade-Broward - Paint	N/A	1	\$	200
Dade-Broward - Propane	N/A	1	\$	170
Dade-Broward - Parts & Supplies	N/A	1	\$	700
Dade-Broward - P&S Electrical/Electronic	N/A	1	\$	700
Dade-Broward - P&S (Tuff Booms)	N/A	1	\$	-
<b>TOTAL</b>			<b>\$</b>	<b>13,179</b>